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Application No.	Applicant(s)
09/499,832	DADIOMOV ET AL.
Examiner	Art Unit
Joseph E. Avellino	2143

Notice of Allowability	09/499,832	DADIOMOV ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Joseph E. Avellino	2143 `	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is nerewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this i) or other appropriate communicat RIGHTS. This application is subjec	application. If not including the second in	ded e course. THIS
<ol> <li>This communication is responsive to <u>Amendment B Filed</u></li> <li>The allowed claim(s) is/are <u>2-5, 7-11, 13-16, 18-20, 22, 2</u></li> <li>The drawings filed on <u>2-8-00</u> are accepted by the Examir</li> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>All b) ☐ Some* c) ☐ None of the:</li> </ol>	.3, 25, 28, 32-42 (renumbered 1-31 ner.	<u>')</u> .	
1.   Certified copies of the priority documents have	ve been received.	•	
2.  Certified copies of the priority documents have	ve been received in Application No	· ·	
3.  Copies of the certified copies of the priority d	ocuments have been received in th	nis national stage applic	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority (a) The translation of the foreign language provisional  6. Acknowledgment is made of a claim for domestic priority	application has been received.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of the complexity of the complexi	of this communication to file a reply f this application. THIS THREE-N	complying with the req	uirements noted FEXTENDABLE.
7.  A SUBSTITUTE OATH OR DECLARATION must be sub NFORMAL PATENT APPLICATION (PTO-152) which gives rea			NOTICE OF
<ul> <li>CORRECTED DRAWINGS must be submitted.</li> <li>(a) including changes required by the Notice of Draftspe</li> <li>hereto or 2) to Paper No</li> <li>(b) including changes required by the proposed drawing</li> </ul>			Examiner.
(c) including changes required by the attached Examine			
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should be written on the dra	wings in the front (not th	e back) of
9. DEPOSIT OF and/or INFORMATION about the departached Examiner's comment regarding REQUIREMENT FOR			Note the
Attachment(s)			
<ul> <li>Notice of References Cited (PTO-892)</li> <li>□ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>□ Information Disclosure Statements (PTO-1449), Paper No.</li> <li>↑□ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4☐ Interview Sun 6⊠ Examiner's A 8⊠ Examiner's S 9☐ Other	rmal Patent Application nmary (PTO-413), Pape mendment/Comment tatement of Reasons for tatement of Reasons for NAME WILEY	r Allowance
	TE	CHNOLOGY CENTER 21	<b>-</b> -



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#### **EXAMINER'S AMENDMENT**

Page 2

# 11 T.D

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeffery J. Makeever on October 27, 2003.

The application has been amended as follows:

Claim 32, line 3, after the word "system", insert ---within a network---.

Claim 33, line 3, after the word "system", insert ---within a network---.

Claim 34, line 3, after the word "system", insert ---within a network---.

Claim 35, line 3, after the word, "system" insert ---within a network---.

Claim 36, line 2, after the word, "system" insert ---within a network---.

Claim 37, line 2, after the word, "system" insert ---within a network---.

Art Unit: 2143

Claim 38, line 2, after the word, "system" insert ---within a network---.

Claim 39, line 2, after the word, "system" insert ---within a network---.

Claim 40, line 2, after the word, "system" insert ---within a network---.

Claim 41, line 2, after the word, "system" insert ---within a network---.

Claim 42, line 2, after the word, "system" insert ---within a network---.

#### **REASONS FOR ALLOWANCE**

- 1. The following is an examiner's statement of reasons for allowance: The prior art does not suggest the additional limitations of not sequentially tagging each individual message within a transaction on a transactional message passing system on a network. A thorough search of the prior art revealed more relevant art which will be cited as pertinent material not relied upon by the Office.
- 2. Jain et al. (USPN 5,806,075) (hereinafter Jain) discloses a method and apparatus for peer-to-peer data replication. Jain discloses that each "call" (equivalent to a "message" in the instant application) contains a Call Identifier (call\_id) which can order a call within a transaction (col. 8, lines 58-61) and does not show support or motivation to remove this feature since it is an integral part of the invention.

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3. The invention distinguishes itself from Sanders et al. (USPN 5,563,879) (hereinafter Sanders) (cited in previous Office Actions) since that each segment of Sanders comprises a header (31) which specifies in which order the segments are to be reconstructed (abstract) and does not show motivation to remove said header since this will destroy the invention.

- 4. The invention distinguishes itself from Bell et al. (USPN 6,044,081) (hereinafter Bell) (cited in previous Office Actions) since that each segment has a segment number field (520) and each segment number field is increased to the next integer value for each subsequent segment (col. 20, lines 54-65). Bell does not disclose motivation and is not of common knowledge to one of ordinary skill in the art to remove this segment number field since it is an integral part of the invention.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Demers et al. (USPN 5,781,912) discloses a recoverable data replication between source site and destination site without distributed transactions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (703) 305-7855. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

JEA October 7, 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100



### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

## NOTICE OF ALLOWANCE AND FEE(S) DUE

23460

7590

11/04/2003

LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6780 EXAMINER

AVELLINO, JOSEPH E

PAPER NUMBER

ART UNIT

DATE MAILED: 11/04/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/499.832	02/08/2000	Alexander Dadiomov	1018.068US1	1798

TITLE OF INVENTION: IDENTIFICATION OF TRANSACTIONAL BOUNDARIES

APPLN. TYPE	SMALL ENTITY ISSUE FEE		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	02/04/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



#### PART B - FEE(S) TRANSMITTA

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000

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INSTRUCTIONS: This for appropriate. All further con indicated unless corrected maintenance fee notification	rrespondence including the below or directed otherwise	smitting the ISSU Patent, advance on in Block 1, by (a	E FEE and ders and noting (	PUBLICATION F ification of mainter a new corresponde	EE (if requance fees address	uired). Blocks 1 through 4 s will be mailed to the current s; and/or (b) indicating a sepa	should be completed where correspondence address as arate "FEE ADDRESS" for
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CHICAGO, IL 606	001-0780						(Depositor's name)
							(Signature)
		•					(Date)
APPLICATION NO.	FILING DATE		FIRST NAME	D INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/499,832	02/08/2000		Alexander	Dadiomov		1018.068US1	1798
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nonprovisional	NO	\$1330	)	\$0		\$1330	02/04/2004
EXAM	MINER	ART UN	IT	CLASS-SUBC	LASS		
AVELLING	), JOSEPH E	2143		709-2360	00		
CFR 1.363).  Change of correspond Address form PTO/SB/1.  "Fee Address" indicati	e address or indication of "F ence address (or Change of C 22) attached. ion (or "Fee Address" Indica or more recent) attached. Us	Correspondence	names of agents Of firm (have agent) and	nting on the patent up to 3 registers, alternatively, (2) ing as a member a d the names of up or agents. If no na inted.	ed patent the name registered to 2 regis	attorneys or 1 of a single attorney or 2 stered patent	
PLEASE NOTE: Unless been previously submitte (A) NAME OF ASSIGN	ed to the USPTO or is being :	low, no assignee d submitted under sej (B	ata will appe parate cover. b) RESIDENC	ar on the patent. In Completion of this CE: (CITY and STA	form is NC TE OR CC	assignee data is only appropri T a substitute for filing an ass DUNTRY)	signment.
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☐ Issue Fee			☐ A check i	n the amount of the	fee(s) is en	nclosed.	
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☐ Advance Order - # of	Copies	<del></del>		ctor is hereby auth count Number	orized by	charge the required fee(s), or (enclose an extra of	
Director for Patents is reque	ested to apply the Issue Fee a	nd Publication Fee	(if any) or to	re-apply any previ	ously paid	issue fee to the application ide	entified above.
(Authorized Signature)		(Date)					,
NOTE; The Issue Fee another than the applicant; interest as shown by the re	d Publication Fee (if requir a registered attorney or ag cords of the United States Pa	ed) will not be ac ent; or the assigne- atent and Trademar	cepted from ee or other p k Office.	anyone party in			
This collection of informa	ation is required by 37 CFR	1.311. The inform	nation is requ	uired to			

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents. Alexandria, Virginia 22313-1450. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900			AVELLINO, JOSEPH E		
	ETSON AVENUE	ART UNIT	PAPER NUMBER		
CHICAGO, IL 6	0601-6780	•	2143	//	
			DATE MAILED: 11/04/200	3	

# Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/499,832	02/08/2000	Alexander Dadiomov	1018.068US1	1798	
23460	7590 11/04/2003		EXAMINER		
	Γ & MAYER, LTD TIAL PLAZA, SUITE 4	000.	AVELLINO,	, JOSEPH E	
	ETSON AVENUE		. ART UNIT	PAPER NUMBER	
CHICAGO, IL			2143		

DATE MAILED: 11/04/2003

#### Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))......\$320.00

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.